

## Specifications for YSI Professional Plus with 4-m and 10-m cable, sensors, weights and case or Equivalent:

The water quality monitoring instrument is to be used for in situ, water quality measurements from discrete sampling of each stream/river site. This instrument must be capable of simultaneous measurement and recording of the following parameters: temperature, dissolved oxygen, pH, and conductivity. Measured data must be available for immediate viewing and must also be stored in the memory of the display unit and downloadable by personal computer.

To fulfill requirements, the **data display** (qty: 2) must incorporate the following features:

Auto Stable	User-defined auto-stable function holds stable readings on display when criteria is met
Barometer	Built-in barometer
Certifications	RoHS, CE, WEEE, C-Tick, VCCI, FCC, IP-67, 1-meter drop test, Assembled in USA
Connectivity	USB 2.0; ProComm II communications saddle and USB cable included; user-upgradeable software via USB and website
Connector	MS (military spec) waterproof with bayonet lock
Data Management	Data Manager desktop software included; 100 user-defined folders and site names
Data Memory	5,000 data sets (data, date, time, user-defined info); 100 GLP files
Display	Graphic display with detailed Help; backlit display AND keypad
Logging Modes	Single or Continuous
Operating Temperature	-10 to 60°C
Power	2 alkaline C-cells provide 80 continuous hours at ambient temperature without backlight; ProComm II saddle provides USB power
Warranty	3-year instrument; 2-year field cables
Waterproof	IP-67 (even with the battery cover off); floats

To fulfill requirements the following accessories must be included:

1. Dual ISE/Cond/DO/Temp cable assembly - 10 meter length w/temp & cond sensor (qty: 1)
2. Dual ISE/Cond/DO/Temp cable assembly - 4 meter length w/temp & cond sensor (qty: 1)
3. Model 2002 Galvanic DO Sensor (qty: 2)
4. Model 1001 pH Sensor (qty: 2)
5. Model 3075 Carrying Case (qty: 2)
6. Model 5978 4.9 oz Cable Weight (qty: 4)

**Specifications for YSI Professional Plus with 4-m and 10-m cable, sensors, weights and case  
or Equivalent**

Page 2 of 2

**Specifications for Sensors:**

	<b>Sensor Type</b>	<b>Range</b>	<b>Accuracy</b>	<b>Resolution</b>	<b>Units</b>
Dissolved Oxygen (%) (temp comp range -5 to 45°C)	Polarographic or Galvanic	0 to 500%	0 to 200% (± 2% of reading or 2% air saturation, whichever is greater) 200% – 500% (± 6% of reading)	1% or 0.1% air saturation (user selectable)	%
Temperature (Field rugged cables)		-5 to 70°C	±0.2°C	0.1°C	°C
Conductivity	Four electrode cell	0 to 200 mS/cm (auto range)	±0.5% of reading or 0.001 mS/cm, whichever is greater (4-m cable)	0.001 mS/cm to 0.1 mS/cm (range dependent)	µS, mS
pH	Glass Combination Electrode	0 to 14 units	±0.2 units	0.01 units	pH units